

*This copy has not been revised.*

28 August 1956

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Subject: Proposal for Lot II Equipment

Reference: (a) Letter of Intent dated 1 May 1956  
(b) Letter Contract BC-200, as amended  
(c) Conference 21 March 1956, Pasadena, WCM, WAS, RMH, SWB  
(d) Conference 25-27 April 1956, Washington, D.C., WCM, GK  
(e) Perkin-Elmer Purchase Order 56207  
(f) Letter dated 23 March 1956, WAS to RMH

Enclosures: (1) Contract Exhibit, Schedule I  
(2) Contract Exhibit, Schedule II

*Revised quotation  
dated 8 Sept 56  
was rec'd - See  
SAPC-9256.*

Gentlemen:

As requested, Hycon presents herewith its proposal for Lot II Equipment, Supplies and Services.

The Lot II Equipment will be supplied on two schedules: Schedule I, consisting of five (5) "B" Camera Configurations and spares; Schedule II, consisting of six (6) "B" Camera Configurations, three (3) A-2 Camera Configurations, spares, ground handling equipment, technical manuals, customer technician training and furnishing of company field engineers.

It is proposed that the contract form generally follow the same terms and conditions as utilized with Lot I Equipment, modified to recognize the slightly different requirements of the Lot II Equipment.

Following is a brief description of items covered within Schedule I and Schedule II:

SCHEDULE I:

A. Camera Configurations

Five (5) "B" Configurations will be delivered, based on the schedule of enclosure (1). This equipment will have incorporated the latest changes authorized. Total Price \$500,000.00

B. Field Replacement Spares

Field Replacement Spares will be provided in three 30-day FAK and one 180-day FAK. Spares within these kits have been selected on the basis of an average of five missions per Camera Configuration per month. See Exhibit (1) for detail listing of the 30-day FAK and 180-day FAK. It will be noted that these kits contain spare parts which had previously been described as "Operational Spares." They are included within the FAK as this is the basis upon which they are handled by the using activities. Total Price \$100,535.00

C. Factory Maintenance Spares

It is planned that a minimum of repair and overhaul of detail assemblies and parts will be accomplished in the field. Accordingly, it is proposed that the necessary detail parts for the factory maintenance and overhaul program, be established as a stock pile within the plant. Lists of recommended spare parts are being prepared and will be presented for negotiation and incorporation into this contract in the near future. Total Price \$35,000.00.

D. Repair and Overhaul

A contract exists for the repair and overhaul of Lot I Equipment. It is proposed that the existing contract be expanded to provide for maintenance and overhaul and to include Lot II, Schedule I Equipment, as well as the Lot I Equipment. It is recommended that an additional \$75,000 be allocated to the Repair and Overhaul Contract for this purpose.

E. Ground Handling Equipment

An analysis has been conducted which indicates that the addition of the Lot II "B" Configurations will not increase the requirements for Ground Handling Equipment. No additional equipment, therefore, will be required.

SCHEDULE II:

A. Camera Configurations

Three (3) A-2 Configurations for a total of \$129,000 and six (6) "B" Configurations for a total of \$600,000 will be delivered as described in enclosure (2). Certain items of GFE are required in the production of the A-2 Configuration. This equipment has been requested and received.

B. Field Replacement Spares

Field Replacement Spares will be provided in two kits, one (1) 30-day FAK and one (1) 360-day FAK. Spares within these kits have been selected on the basis of an average of five missions per Camera Configuration per month. Total Price \$192,316.00. See Exhibit (2) for detail listings.

C. Factory Maintenance Spares

It is planned that a minimum of repair and overhaul of detail assemblies and parts will be accomplished in the field. Accordingly, it is proposed that the necessary detail parts for the factory maintenance and overhaul program, be established as a stock pile within the plant. Lists of recommended spare parts are being prepared and will be presented for negotiation and incorporation into this contract in the near future. Total Price \$50,000.00.

D. Repair and Overhaul

A contract exists for the repair and overhaul of Lot I Equipment. It is proposed that the existing contract be expanded to provide for maintenance and overhaul and to include Lot II, Schedule II Equipment, as well as

the Lot I Equipment. It is recommended that \$90,000.00 be allocated to the Repair and Overhaul Contract for this purpose.

#### E. Training of Customer Technicians

Training of seven (7) customer technicians will be accomplished over a nine (9) week schedule. Instruction will be conducted eight (8) hours per day, five (5) days per week, Monday through Friday. Classes will be held in facilities being prepared specifically for this purpose immediately adjacent to our maintenance, repair and overhaul facility.

It is planned that project engineers, senior engineers, field service engineers and production personnel will be utilized to give the trainees the most complete subject coverage. The students will be given schematic drawings, blueprints, course outlines, charts and miscellaneous training material during the course of the program. These are distributed as training aids and can be used in the future as reference material.

Invoices will be made monthly based upon percentage of completion of contractor's obligation. The nine (9) week training of seven (7) customer technicians will be performed for a total amount of \$19,154.00.

There are housing facilities available in near-by hotels, Pasadena Athletic Club and Pasadena YMCA for approximately \$4.00 per day per student. Due to inadequate public transportation, it is recommended that one automobile be made available to the students.

#### F. Field Service Engineers

Four (4) field service engineers will be provided. The personnel chosen for this assignment will be classified as Field Engineer, Camera, to service and maintain the equipment described herein. They will receive a minimum of three (3) months training within the factory including training at The Maintenance and Overhaul Facility. Upon completion of the scheduled training, it is proposed that Hycon utilize these men in manufacturing or maintenance and overhaul activities until required in the field.

Our proposal assumes that quarters and messing facilities will be available, as well as adequate local transportation. Extended travel will be reimbursed on a direct cost basis or Government furnished.

Field Engineering Services will be provided for a one-year period (see Exhibit 3) for a total of \$83,671.00.

#### G. Ground Handling Equipment

Exhibit (4) lists the types and quantities of specialized ground handling and test equipment, based on our test site and operational experience. This list is our recommended level of support for Schedule II equipment for single base operations. The total amount of this equipment is \$51,362.00.

H. Technical Manuals

Ten (10) production copies and one (1) reproducible copy of handbooks for the equipment to be delivered on Schedule II will be supplied for a total amount of \$6,020.00.

We trust this proposal meets with your approval and request that a contract be written to cover the services and supplies as presented in the contract exhibits, enclosures (1) and (2) for a total amount of \$2,051,034.00.

Very truly yours,

HYCON MFG. COMPANY

[Redacted Signature Box]

Manager

Instrument Division

enclosures

Enclosure (1)

28 August 1956

## SCHEDULE I

Lot II Equipment

Item No.	Hycon Code No.	Description	Unit Price	Total Price
1		<p>Deliver five (5) production Units of Configuration B each including the following:</p> <p>One (1) Shutter Model HS-732  Two (2) Cassettes Model 73-B  Two (2) Film Spools Model 73-B  One (1) Programmer Model 73-B  One (1) Vibration Detector Model 73-B  One (1) Container, Shipping and Storage Model 73-B  One (1) 36" f/10 Lens Assembly with yellow filter  One (1) Elliptical Mirror  One (1) Red filter for 36" f/10 Lens Assy</p> <p>Delivery - One (1) 30 November 1956  One (1) <del>31</del> December 1956  One (1) <del>31</del> January 1957  One (1) 28 February 1957  One (1) <del>31</del> March 1957  <i>1 April</i></p>	100,000	500,000
2		<p>Deliver five (5) production units of Slings B</p> <p><i>Concurrent</i>  Delivery - <del>Five (5)</del> 31 November 1956</p>	270	1,350
3		<p>Deliver two hundred and twenty-five (225) spare production units of Film Spool Model 111 <i>A-1</i></p> <p>Delivery - Two hundred and twenty-five (225) 31 Sept. 1956</p>	7.45	1,676.25
4.		<p>Deliver two hundred (200) spare production units of Film Spool Model 114 <i>A-2</i></p> <p>Delivery - Two hundred (200) 31 Sept. 1956</p>	9.32	1,864.00

28 August 1956

## SCHEDULE I

## Lot II Equipment

Item No.	Hycon Code No.	Description	Unit Price	Total Price
5		Deliver four hundred (400) spare production units of Film Spool Model 73-B including shipping flanges and shaft.	139.30	55,720.00
		Delivery - Twenty (20) 31 Sept. 1956 One Hundred (100) 31 Oct. 1956 One hundred (100) 30 Nov. 1956 One hundred (100) 31 Dec. 1956 Eighty (80) 31 January 1957		
6		Deliver three (3) sets spares for 30-day FAK and one (1) set spares for 180-day FAK.		100,535.00
		Delivery - Complete 31 March 1957		
		Deliver one (1) set spares for Repair and Overhaul in the estimated amount of		35,000.00
		Delivery - To be continued as required during course of program.		
		Provide Repair and Overhaul Services on Schedule I equipment in the estimated amount of		75,000
		Delivery - To be continued as required during course of program.		

Schedule I Total

\$771,145.25

## Enclosure (2)

## SCHEDULE II

Lot II Equipment  
28 August 1956

Item No.	Hycon Code No.	Description	Unit Price	Total Price
1		<p>Deliver six (6) production units of Configuration B Each including the following:</p> <p>One (1) Shutter Model HS-732  Two (2) Cassettes Model 73-B  Two (2) Film Spools Model 73-B  One (1) Programmer Model 73-B  One (1) Vibration Detector Model 73-B  One (1) Container, Shipping and Storage Model 73-B  One (1) 36" f/10 Lens Assembly with Yellow Filter  One (1) Elliptical Mirror  One (1) Red filter for 36" f/10 Lens Assy.</p> <p>Delivery - <del>One (1) 31 November 1956</del>  <del>One (1) 31 December 1956</del>  <del>One (1) 31 January 1957</del>  One (1) 28 February 1957  <del>One (1) 31 March 1957</del> <i>June</i>  <del>one (1) April</del>  <del>two (2) May</del></p>	\$100,000	\$600,000
2		<p>Deliver three hundred and fifty-five (355) spare production units of Film Spool Model 73-B including shipping flanges and shaft</p> <p>Delivery - Thirty (30) 30 October 1956  Thirty (30) 30 November 1956  Thirty (30) 31 December 1956  Thirty (30) 31 January 1957  Sixty (60) 28 February 1957  Sixty (60) 31 March 1957  One Hundred <del>ten (10)</del> <i>forty</i>  30 April 1957</p>	\$ 139.30	\$ 49,451
3		<p>Deliver three (3) production units of Configuration A-2, each complete, including the following:</p> <p>One (1) Fixed Triple Mount Assy. 7312  Three (3) Cameras Model HR-731, complete with 24" f/16 lens and filters  One (1) Programmer Model 7313 A-2  One (1) Container, Shipping and Storage Model 7316</p>	\$ 43,000	\$129,000

## SCHEDULE II

Lot II Equipment  
28 August 1956

Item No.	Hycon Code No.	Description	Unit Price	Total Price
3 (cont'd)		Three (3) Film Spools Model 114		
		Delivery - One (1) <del>31 November</del> <sup>December</sup> 1956		
		<del>Two (2) 31 December</del> <sup>one (1) January</sup> 1956		
4		Deliver two hundred and forty-three (243) production units of Film Spool Model 114.	\$ 9.32	\$ 2,265
		Delivery - Thirty (30) 31 November 1956		
		Sixty (60) 31 December 1956		
		Sixty (60) 31 January 1957		
		Sixty (60) 28 February 1957		
		Thirty-three (33) 31 March 1957		
5		Deliver twenty (20) production units of A/C Power Junction Box Model PJ-73	330.	6,600
		Delivery - Four (4) 30 September 1956		
		Four (4) 31 October 1956		
		Four (4) 31 November 1956		
		Four (4) 31 December 1956		
		Four (4) 31 January 1957		
6		Deliver one (1) production unit of Film Drive Test Stand for Configuration B	900.	900.
		Delivery - One (1) 31 January 1957		
7		Deliver one (1) unit of Magazine Test Stand for Configuration A-2	850.	850.
		Delivery - One (1) 31 December 1956		
8		Deliver one (1) unit of Cassette Test Stands with Film Rewind Adapter for Configuration B	850.	850.
		Delivery - One (1) 31 December 1956		
9		Deliver one (1) unit of Shutter Test Set for Configurations A-2 and B, including scope, scope camera, cell and fixtures	3,400.	3,400.
		Delivery - One (1) 31 December 1956		



## SCHEDULE II

Lot II Equipment  
28 August 1956

<u>Item No.</u>	<u>Hycon Code No.</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total Price</u>
10		Deliver three (3) units of Electrical Test Set for Configurations A-2 & B	\$ 3,700	\$ 11,100
		Delivery - One (1) 31 December 1956 Two (2) 31 January 1957		
11		Deliver one (1) each set of IMC Test Accessories for Configuration A-2 & B	\$ 350	\$ 350
		Delivery - One (1) 31 December 1956		
12		Deliver three (3) production units of Battery and Vacuum Cart	\$ 1,850	\$ 5,550
		Delivery - One (1) 31 December 1956 Two (2) 31 January 1957		
13		Deliver two (2) units of Event Recorder for Configurations A-2 and B	\$ 925.	\$ 1,850
		Delivery - One (1) 31 December 1956 One (1) 31 January 1957		
14		Deliver six (6) sets of Specialized Hand Tools	\$ 250	\$ 1,500
		Delivery - 31 January 1957		
15		Deliver two (2) units of Sensitometer	\$ 135	\$ 270
		Delivery - 31 December 1956		
16		Deliver one (1) unit of Vibration Detector 73-B Test Set for Configuration B	\$ 850	\$ 850
		Delivery - One (1) 31 December 1956		
17		Deliver two (2) units of 100" Collimator	\$ 8,216	\$ 16,432
		Delivery - Two (2) 31 December 1956		
18		Deliver one (1) unit of Oscillograph Recorder	\$ 3,060	\$ 3,060
		Delivery - One (1) 31 December 1956		

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## SCHEDULE II

Lot II Equipment  
28 August 1956

Item No.	Hycon Code No.	Description	Unit Price	Total Price
19		Deliver four (4) units of Standard Transport Dolly	\$ 500	\$ 2,000
		Delivery - Two (2) 31 December 1956 Two (2) 31 January 1957		
20		Deliver three (3) units of Slings A-2	\$ 135	\$ 405
		Delivery - One (1) 30 November 1956 Two (2) 31 December 1956		
21		Deliver six (6) units of Slings B	\$ 270	\$ 1,620
		Delivery - One (1) 30 November 1956 Two (2) 31 December 1956 Three (3) 31 January 1957		
22		Deliver two (2) units of Low Bed Transport Dolly	\$ 75	\$ 150
		Delivery - 30 November 1956		
23		Deliver one (1) unit of Rewind Stand Assembly for Configuration A-2	\$ 275	\$ 275
		Delivery - 31 December 1956		
24	7.0	Technical Data & Instruction Manuals. Ten (10) sets of A-2 Configuration System	\$ 38	\$ 380
		One (1) reproducible copy		50
		Delivery - 30 September 1956		
25	7.0	Technical Data & Instruction Manuals. Ten (10) production sets of Shutter Model HS-731	\$ 38	\$ 380
		One (1) reproducible copy		50
		Delivery - 30 September 1956		
26	7.0	Technical Data & Instruction Manuals. Ten (10) production units for Camera Model HR-731	\$ 38	\$ 380
		One (1) reproducible copy		50
		Delivery - 30 September 1956		

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## SCHEDULE II

Lot II Equipment  
28 August 1956

<u>Item No.</u>	<u>Hycon Code No.</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total Price</u>
27	7.0	Technical Data & Instruction Manuals. Ten (10) production sets for Magazine Model HM-731 One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
28	7.0	Technical Data & Instruction Manuals. Ten (10) production sets for Fixed Triple Mount Assembly Model 7312 One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
29	7.0	Technical Data & Instruction Manuals. Ten (10) production sets for B Config- uration One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
30	7.0	Technical Data & Instruction Manuals. Ten (10) production sets of Test Equipment Shutters One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
31	7.0	Technical Data & Instruction Manuals. Ten (10) production sets of Film Drive, B Configuration One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
32	7.0	Technical Data & Instruction Manuals. Ten (10) production sets of Shutter Model 73-B One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				

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## SCHEDULE II

Lot II Equipment  
28 August 1956

Item No.	Hycon Code No.	Description	Unit Price	Total Price
33	7.0	Technical Data & Instruction Manuals. Ten (10) production sets of Cassette Model 73-B One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
34	7.0	Technical Data & Instruction Manuals. Ten (10) production sets of Electrical Test Set One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
35	7.0	Technical Data & Instruction Manuals. Ten (10) production sets of Programmer Model 73-B and Electrical System One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
36	7.0	Technical Data & Instruction Manuals. Ten (10) production sets of Optics and Optical Structure, B Configuration One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
37	7.0	Technical Data & Instruction Manuals. Ten (10) production sets of Oblique Drive, B Configuration One (1) reproducible copy	\$ 38	\$ 380 50
Delivery - 30 September 1956				
38		Deliver one (1) set Spares for 30-day FAK and one (1) set spares for 360-day FAK for B Configuration		<del>\$154,800</del> 142,531.83
Delivery - Complete 31 March 1957				

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## SCHEDULE II

Lot II Equipment  
28 August 1956

Item No.	Hycon Code No.	Description	Unit Price	Total Price
39		Deliver one (1) set spares for 30-day FAK and one (1) set spares for 360-day FAK for A-2 Configuration		<del>\$ 37,516</del> <b>54,156.40</b>

Delivery - Complete 31 March 1957

Provide Repair and Overhaul services for Schedule II equipments for the estimated amount of

\$ 90,000

Delivery - To be continued as required during the course of program.

41		Deliver one (1) set "B" and one (1) set "A-2" spares for Repair and Overhaul of Schedule II equipment		\$ 50,000
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Delivery - To be continued as required during course of program.

42 - 46		Provide services and facilities for nine (9) weeks training of seven (7) customer technicians		\$ 19,154
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Delivery - To be established

43		Provide training and operations services of four (4) Tech. Reps. for one year		<del>\$ 83,671</del>
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*two (2)*  
Delivery - To be continued as required during course of program.

✓ 44 <sup>40</sup> Tech Data for A-1 Configuration System 10 copies 380.00  
1 repro 50.00

✓ 45 <sup>41</sup> " " " HM-730 Aircraft Roll Film 10 copies 380.00  
Schedule II Total 50.00 **\$1,279,889**

46 <sup>42</sup> Tech Data for HS-730 Shutter Box 10 copies 380.00  
1 repro 50.00

47 <sup>43</sup> Tech Data for HC-730 Aircraft Camera 10 copies 380.00  
1 repro 50.00

48 <sup>44</sup> Tech Data for Model 7310 Intg Log 10 380.00  
50.00

49 <sup>45</sup> One (1) repro and 5 sets of Operation Drags. (cont in Item 12/3)

Exhibit (3)

28 August 1956

## COST EXHIBIT

## FIELD SERVICE ENGINEER

Factory Training

	Base Salary	Burden	Total	G&A	Profit	Total
Field Engineer, Camera	550.00	770.00	1320.00	158.40	147.84	1626.24

Operational Assignment

	Base Salary	Burden	Per Diem	Total	G&A	Profit	Man Mo. Sale Rate
Field Engineer, Camera	550.00	357.50	360.00	1267.50	152.10	141.96	1561.56

## Direct Charge Items:

- a. Uniform Allowance \$ 250.00
- b. Specialized Tool Kit 235.00
- c. Transportation and Communication  
Estimated one year 1,500.00

Total Estimated, Four (4) Tech. Reps., one (1) year (including  
three (3) month training)

\$83,671.04

Exhibit (4)

28 August 1956

LOT II EQUIPMENT  
SCHEDULE II  
GROUND HANDLING EQUIPMENT

<u>Nomenclature</u>	<u>Used On</u>	<u>Quantity</u>
Magazine Test Stand	A-2	1
Slings	A-2	1
Film Rewind Stand	A-2	1
Film Drive Test Stand	B	1
Cassette Test Stand	B	1
Mini-Vib Test Stand	B	1
Slings	B	6
Shutter Test Set	A-2 & B	1
Electrical Test Set	A-2 & B	3
IMC Test Accessories	A-2 & B	1
Event Recorder	A-2 & B	2
Special Hand Tools	A-2 & B	6
Collimator	A-2 & B	2
Sensitometer	A-2 & B	2
Oscillograph Recorder	A-2 & B	1
Standard Transport Dolly	A-2 & B	4
Low Bed Transport Dolly	A-2 & B	2